IN THE CLAIMS:

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Please cancel claims 1-6 without prejudice to or disclaimer of the subject matter contain therein.

Please amend claim 7 as follows:

LISTING OF CURRENT CLAIMS

Claims 1-6. (Canceled)

Claim 7. (Currently Amended) A power rectifier device, comprising:

A <u>a</u> semiconductor substrate having a first conductive layer doped with firsttype impurities, an epi layer formed thereon which is extended to a first surface thereof and is lightly doped with said first-type impurities;

a cathode metal layer formed on said first conductive layer opposite said first surface;

a first oxide layer formed on said first surface;

a pair of trenches formed through said first oxide layer and into a top of said epi-layer and spaced from each other by a first mesa region;

a termination mesa region surrounded surrounding said pair of cell trenches;

a second conductive type doped region formed into said epi layer of said first mesa region and said termination mesa region. region, wherein said first mesa region and said termination mesa region are regions located on said first surface having said first oxide layer formed thereon;

a Schottky barrier silicide layer formed on said epi layer in <u>located on bottom</u> and side surfaces of said trenches;

a top metal layer acted <u>acting</u> as an anode <u>and</u> formed on said Schottky barrier silicide layer and extended to cover all surfaces of said first mesas region and a portion of said termination mesa <u>region</u>; <u>region</u>.

Claim 8. (Original) The power rectifier device according to Claim 7 and further comprising a nitride layer formed in between said first oxide layer and said top metal layer.

Claim 9. (Original) The power rectifier device according to Claim 8 wherein said first oxide layer has a thickness between about 100 - 1000 nm and said nitride layer has a thickness between about 50 - 300 nm.

Claim 10. (Original) The power rectifier device according to Claim 8 wherein said trenches have a depth of between about 1 to 5µm measured from the surface of said epi layer.

Claim 11. (Original) The power rectifier device according to Claim 7 wherein said Schottky barrier silicide layer is formed of metal silicide selected from the group consisting of silicide of Ti, Ni, Cr, Mo, Pt, Zr, and W with silicon.

Claim 12. (Original) The power rectifier device according to Claim 7 wherein said top metal layer is formed of stacked layers of TiNi/Ag or TiW/Al.